



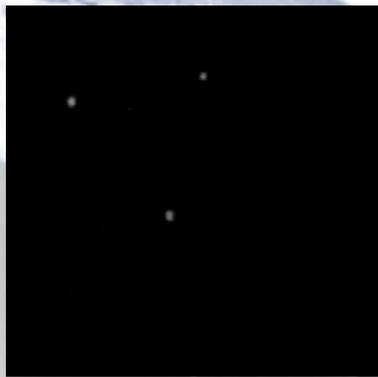
Glenn Research Center



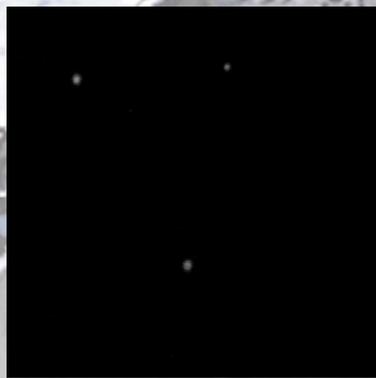
# Properties of Flame Balls



10 sec



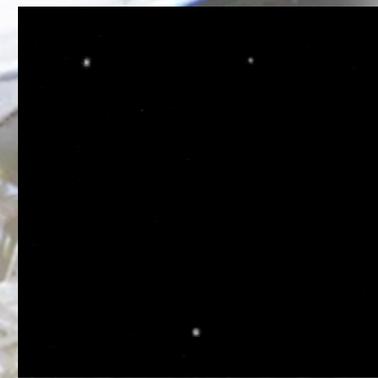
2 min



4 min



6 min



8 min

STS-83  
4.9% H<sub>2</sub>  
9.8% O<sub>2</sub>  
85.3% CO<sub>2</sub>  
1 atm

- ◆ Exist for long periods of time, up to minutes  
(First proof of unverified theory dating to 1940's)
- ◆ Drift apart slowly  
(New theory being developed)
- ◆ Become smaller with time  
(Theory predicts smaller size for mixture with less fuel)